## INDEX

Abandoned farm land, succession on. 50-51

Alaskan black flies, biology of, 345-385

Aspen groves associations, 324-337 floristic comparisons, 337 in Glacier County, Mont., 321-344 stability, 338-341

Behavior of covotes, 9-34 of lizards, 65-67 Biomass pyramids, 310 Black flies, hibernation, 367 Bromegrasses, annual, ecology of, 181-213

Bromus tectorum, ecology of, 181germination, conditions for, 202growth and reproduction, 198phenology, 195-197 roots, 190-193 seed dispersal, 201 seed viability, 202-210

Bryophytes, corticolous ecological factors, 228-229 of upland forests, 215-231 of northern Wisconsin, 215-231 phytosociology, 218-226

Climax grassland, 43 effects of grazing, 44-48 Competition between sibling species of Drosophila, 378-409 Competition

between predators, 111-113 interspecies, 397-404 intraspecies, 391-396 Consumers, in trophic relation-

ships, 305 Cooke, Wm. Bridge, article, 119-

180

Coral, plant and animal components, 297 primary producers, 302-305 consumers, 305

Coral reef community, trophic structure and productivity, 291-

Coyotes, behavior, 9-34 feeding patterns, 1-37 Cryptogams, ecology of in Washington and Idaho, 119-

in northern Wisconsin, 215-231 Culberson, William L., article, 215-231

Decomposers, in trophic relationships, 309-310

Ecological relations of jaegers and owls as lemming predators, 85-117

Eniwetok Atoll, coral reef community, 291-320

Feeding patterns of coyotes in Nebraska, 1-37 Fichter, Edson, article, 1-37 Fire, and aspen groveland, 340 Fitch, Henry S., article, 59-83 Food coyotes, 1-37 Great Plains skink, 74-78 jaegers and owls, 87-104 spadefoot toad, 242 Fungi, in vascular plant communi-

Grazing, effects of, 44-48 Groveland, aspen, and controlling factors, 338-342 Growth

of lizards, 71-74 of toad, 255

ties, 119-180

Habits of Great Plains skink, 59-Hibernation, of black flies, 367 Home range of spadefoot toad, 244 of skink, 67 Hulbert, Lloyd C., article, 181-213

Jaegers, as lemming predators, 85-117

Launchbaugh, John L., article, 39-57 Lemming predators, 85-117 Lichens, in vascular plant communities of Washington and Idaho, 119-180 of Wisconsin, 215-231 Lizards, behavior, 65-67

Lynch, Daniel, article, 321-344 Metabolism, of coral reef com-

munity, 310-318 Mosses, in vascular plant communities, 119-180

Odum, Eugene P., article, 291-320 Odum, Howard T., article, 291-320 Owls, as lemming predators, 85-117

Pearson, Paul G., article, 233-267

Phenology Bromus tectorum, 195-197 Phytosociology of bryophytes, 218-225 of fungi, 119-180

Pitelka, Frank A., article, 85-117 Plankton, in community metabolism, 312 Population

ecology of Scaphiophus, 233predation in relation to, 113 productivity in Tribolium, 269-

290 of skink, 80

Populus tremuloides ecology of, 321-344 in Montana, 321-344 growth rate, 338

Reef deposition and erosion, 316 Reproduction of skink, 69-71 of spadefoot toad, 254 Roots, of Bromus tectorum, 190-193

Sampling, of bryophyte communities, 216-217 San Antonio prairie, 39-57 geology and soils, 42

history, 40 vegetation, 43-55

Sather, J. Henry, article, 1-37 Schildman, George, article, 1-37 Seasonal development of vegetation, 54-55

Seed viability, brome grasses, 208-209

Simulium, biology of, 345-385 Skink, habits, 59-83 Sokoloff, Alexander, article. 387-

Sommerman, K. M., article, 345-

385 Standing crop and production, 291-293

Succession

after grazing, 50 in grassland, 48-51 in the San Antonio Prairie, 50on abandoned land, 50-51

Tomich, Quentin, article, 85-117 Treichel, George W., article, 85-117

Tribolium confusum, population productivity, 269-290

Trophic structure and productivity of a windward coral reef community, 297-318

Watt, Kenneth E. F., article, 269-

Zonation, of an inter-island reef, 293-297